

**TABLE 2**  
**SEDIMENT SAMPLING ANALYTICAL RESULTS (7/24/02)**  
**DRY POND AREA**  
**VETERANS MEMORIAL FIELD**  
**SOUTH PLAINFIELD, NEW JERSEY**  
**PMK# 0502014**

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact Ground Water Soil Cleanup Criteria (mg/kg)	SS-1 P3457-01 7/24/02 0-0.5 Sediment (mg/kg)	SS-2 P3457-02 7/24/02 0-0.5 Sediment (mg/kg)	TB P3457-03 7/24/02 Aqueous (mg/kg)
<b>VOLATILE COMPOUNDS (GC/MS)</b>						
	<b>DILUTION FACTOR</b>					
Chloromethane	520	1	10	1.0	1.0	1.0
Benzene	3	13	1	ND	ND	ND
Toluene	1,000	1000	500	ND	ND	ND
Tetrachloroethene	4	6	1	ND	ND	ND
Chlorobenzene	37	680	1	ND	ND	ND
Ethylbenzene	1,000	1000	100	ND	ND	ND
Xylene(Total)	410	1000	67	ND	ND	ND
Bromoform	86	370	1	ND	ND	ND
Acrolein	NA	NA	NA	ND	ND	ND
Total Confident Conc. VOAs (s)	1,000	1,000	1,000	0	0	0
Total Estimated Conc. VOA TICs (s)	1,000	1,000	1,000	0	0	0

<b>PESTICIDES</b>					
<b>DILUTION FACTOR</b>					
Total Pesticides	NS	NS	NS	1.00	1.00
				ND	ND

<b>METALS</b>					
<b>DILUTION FACTOR</b>					
Antimony	14	340	NA	6.1 B	NA
Arsenic	20	20	NS	5.8	12.8
Beryllium	2	2	NS	0.99 B	NA
Cadmium	39	100	NS	35.1	7.8
Chromium	NS	NS	NS	75.1	31.+
Copper	600	600	NS	151	62.2
Lead	400	600	NS	246 *	81.4
Mercury	14	270	NS	0.45 *N	0.25 *N
Nickel	250	2,400	NS	55.6 E	35.9 E
Selenium	63	3,100	NS	3.1	1.0
Silver	110	4,100	NA	5.8	3.2
Thallium	2	2	NA	ND	NA
Zinc	1,500	1,500	NS	508	481.0

Handed to me for analysis is for  
 9/2/02  
 by PMKs, from  
 pulled test  
 in  
 currently  
 burning

TABLE 2 continued  
 SEDIMENT SAMPLING ANALYTICAL RESULTS (7/24/02)  
 DRY POND AREA  
 VETERANS MEMORIAL FIELD  
 SOUTH PLAINFIELD, NEW JERSEY  
 PMK# 0502014

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact Ground Water Soil Cleanup Criteria (mg/kg)	SS-1 P3457-01 7/24/02 0- 0.5 Sediment (mg/kg)	SS-2 P3457-02 7/24/02 0- 0.5 Sediment (mg/kg)	TB P3457-03 7/24/02 Aqueous (mg/kg)
<b>SEMIVOLATILE COMPOUNDS (GC/MS)</b>						
<b>DILUTION FACTOR</b>						
Acenaphthylene	NA	NA	NA	1.00	5.00	NA
Acenaphthene	3400	10000	100	0.150 J	0.120 J	NA
Fluorene	2300	10000	100		0.066 J	NA
Phenanthrene	NA	NA	100	0.490 J	0.093 J	NA
Anthracene	10000	10000	100	0.140 J	1.1	NA
Di-n-butylphthalate	5700	10000	100	0.310 J	0.280 J	NA
Fluoranthene	2300	10000	100	1.4	0.053 J	NA
Benzzidine	NA	NA	NA	ND	2.3	NA
Pyrene	1700	10000	100	1.4	ND	NA
Butylbenzylphthalate	1100	10000	100	3.3	2.5	NA
3,3'-Dichlorobenzidine	2	6	100	ND	0.44	NA
Benzo(a)anthracene	0.9	4	100	0.8	ND	NA
Chrysene	9	40	500	1	1.5	NA
bis(2-Ethylhexyl)phthalate	49	210	500	12 E	1.7	NA
Di-n-octylphthalate	1100	10000	100	0.30 J	0.067 J	NA
Benzo(b)fluoranthene	0.9	4	50	1.2	1.5	NA
Benzo(k)fluoranthene	0.9	4	500	0.93	1.7	NA
Benzo(a)pyrene	0.66	0.66	100	1	1.8	NA
Indeno(1,2,3-cd)pyrene	0.9	4	500	0.520 J	0.39	NA
Dibenz(a,h)anthracene	0.66	0.66	100	ND	0.120 J	NA
Benzo(g,h,i)perylene	NS	NS	NS	0.600 J	0.77	NA
Total Confident Conc. BNAs (s)	10,000	10,000	10,000	11.03	17.4	NA
Total Estimated Conc. BNA TICs (s)	10,000	10,000	10,000	31.41	18.79	NA
<b>PCBs</b>						
<b>DILUTION FACTOR</b>						
Aroclor-1254	0.49	2	50	1.00	1.00	NA
				7.3	6.7	NA

TABLE 3  
SOIL SAMPLING ANALYTICAL RESULTS  
PCB INVESTIGATION  
VETERANS MEMORIAL FIELD  
SOUTH PLAINFIELD, NEW JERSEY  
PMK# 0502014

[illegible]

TABLE 3 continued  
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY  
PCB INVESTIGATION  
VETERANS MEMORIAL FIELD  
SOUTH PLAINFIELD, NEW JERSEY  
PMK# 0502014

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	R-1A P3612-01 8/5/02 0.0-0.5 SOIL 1.0 (mg/kg)	R-1B P3612-02 8/5/02 0.0-0.5 SOIL 10.0 (mg/kg)	R-1C P3612-03 8/5/02 0.0-0.5 SOIL 10.0 (mg/kg)	R-1D P3612-04 8/5/02 0.0-0.5 SOIL 10.0 (mg/kg)	R-1DEEP P3612-05 8/5/02 1.0-1.5 SOIL 1.0 (mg/kg)
Lab Sample Number								
Sampling Date								
Sampling Depth (feet)								
Matrix								
Dilution Factor								
Units								
PCBs								
Aroclor-1016	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1221	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1232	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1242	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1248	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1254	0.49	2	50	0.4	0.48	2.7	0.74	ND
Aroclor-1260	0.49	2	50	ND	ND	ND	ND	ND

**TABLE 4**  
**SAMPLING SUMMARY RESULTS TABLE**  
**PCB POST EXCAVATION**  
**VETERANS MEMORIAL FIELD**  
**SOUTH PLAINFIELD, NEW JERSEY**  
**PMK# 0502014**

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TABLE 4 continued  
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY  
PCB POST EXCAVATION  
VETERANS MEMORIAL FIELD  
SOUTH PLAINFIELD, NEW JERSEY  
PMK# 0502014

Sample ID	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact to Ground Water Soil Cleanup Criteria (mg/kg)	SW-1-081302 P3720-01 8/13/02 1.5-2 SOIL 1.0 (mg/kg)	SW-2-081302 P3720-02 8/13/02 1.5-2 SOIL 1.0 (mg/kg)	FLOOR081302 P3720-03 8/13/02 2-2.5 SOIL 1.0 (mg/kg)
Lab Sample Number						
Sampling Date						
Sampling Depth (feet)						
Matrix						
Dilution Factor						
Units						
PCBs						
Aroclor-1016	0.49	2	50	ND	ND	ND
Aroclor-1221	0.49	2	50	ND	ND	ND
Aroclor-1232	0.49	2	50	ND	ND	ND
Aroclor-1242	0.49	2	50	ND	ND	ND
Aroclor-1248	0.49	2	50	ND	ND	ND
Aroclor-1254	0.49	2	50	3.3	1.3	4.8
Aroclor-1260	0.49	2	50	ND	ND	ND

TABLE 4 continued

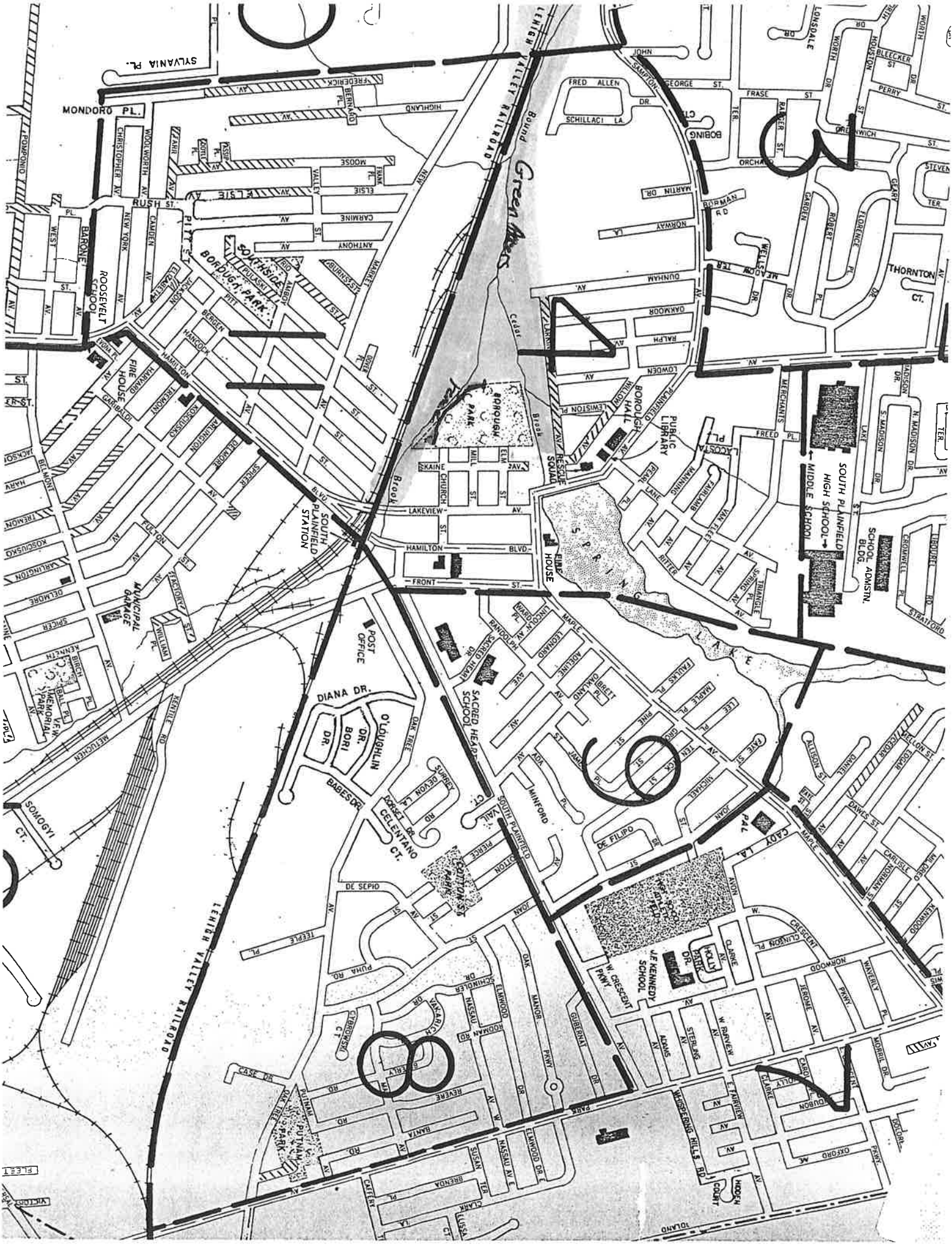
SOIL SAMPLING SUMMARY RESULTS TABLE  
PCB POST EXCAVATION  
VETERANS MEMORIAL FIELD  
SOUTH PLAINFIELD, NEW JERSEY  
PMK# 0502014

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TABLE 5  
SOIL SAMPLING ANALYTICAL RESULTS  
AOC #3 and #5  
VETERANS MEMORIAL FIELD  
SOUTH PLAINFIELD, NEW JERSEY  
PMK# 0502014

Sample ID Lab Sample Number Sampling Date Sampling Depth (feet) Matrix Units	New Jersey Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Ground Water Soil Cleanup Criteria (mg/kg)	TP-31 P3702-01 8/9/02 1.0-1.5 SOIL (mg/kg)	TP-33 P3702-02 8/9/02 1.0-1.5 SOIL (mg/kg)	TP-34 P3702-03 8/9/02 1.0-1.5 SOIL (mg/kg)	TP-64 P3702-04 8/9/02 6.5-7.0 SOIL (mg/kg)	TP-6 P3702-05 8/9/02 2.5-3.0 SOIL (mg/kg)	TP-4 P3702-06 8/9/02 3.5-4.0 SOIL (mg/kg)	TP-4d P3702-07 8/9/02 7.0-7.5 SOIL (mg/kg)	TP-13 P3702-08 8/9/02 1.5-2.0 SOIL (mg/kg)	TP-10 P3702-09 8/9/02 2.0-2.5 SOIL (mg/kg)	TP-10d P3702-10 8/9/02 3.5-4.0 SOIL (mg/kg)	TP-10d P3702-11 8/9/02 3.5-4.0 SOIL (mg/kg)
<b>VOLATILE COMPOUNDS (GC/MS)</b>														
<b>DILUTION FACTOR</b>														
Benzene	3	13	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Toluene	1,000	1,000	500	0.14 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,000	1,000	100	0.82 J	0.160 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene(Total)	410	1,000	67	0.230 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				2.2 J	0.940 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Confident Conc. VOAs (g)	1,000	1,000	1,000	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Estimated Conc. VOAs TICs (g)	1,000	1,000	1,000	13	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>PESTICIDES</b>														
<b>DILUTION FACTOR</b>														
Pesticides	NS	NS	NS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	NA
<b>METALS</b>														
<b>DILUTION FACTOR</b>														
Antimony	14	340	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	20	20	NS	7.20	7.9	7.0	46.7	41.4	16.6	0.89 B	0.43 B	0.30 B	0.30 B	NA
Beryllium	2	2	NS	0.57 E	0.58 E	0.50 E	0.48 B	0.95	0.65 E	0.26 BE	3.3 E	0.78 E	0.84 B	NA
Cadmium	39	100	NS	0.74	0.54 B	11.4	17.8	13	20.2	0.20 B	9.4	2.1	0.38 B.E	NA
Chromium	NS	NS	NS	11.8	10.7	47.5	64.9	87.7	81.7	7.4	9.4	2.1	1.2 B	NA
Copper	600	600	NS	74.1	75.5	67.5	556	125	245	2.6 B	1.7	ND	ND	NA
Lead	400	600	NS	197	0.1	0.1	0.14	0.09	0.14	ND	ND	0.86	0.37 B	NA
Mercury	14	270	NS	10	7.3	6.6	10.3	10.1	28.4	2.9 B	ND	0.52	0.07	NA
Nickel	250	2,400	NS	2.6	0.9	1.0	1.6	0.58 B	2.1	0.47 B	0.68	ND	ND	NA
Selenium	63	3,100	NS	1.5	1.0	0.88 B	0.79 B	0.68 B	5.9	ND	ND	ND	ND	NA
Silver	110	4,100	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Thallium	2	2	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Zinc	1,500	1,500	NS	52.5	100.0	97.7	90.6	187	203	18.2	7.1	ND	ND	NA
<b>SEMI-VOLATILE COMPOUNDS (GC/MS)</b>														
<b>DILUTION FACTOR</b>														
Naphthalene	230	4200	100	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	NA
Acenaphthylene	NA	NA	NA	0.54	0.110 J	ND	ND	ND	ND	ND	ND	0.087 J	ND	NA
Acenaphthene	3400	10000	100	0.110 J	ND	ND	ND	ND	0.120 J	ND	ND	0.120 J	ND	NA
Fluorene	2300	10000	100	ND	ND	ND	ND	0.056 J	ND	ND	ND	ND	ND	NA
Phenanthrene	NA	NA	NA	ND	ND	0.048 J	0.150 J	0.072 J	ND	ND	ND	ND	ND	NA
Anthracene	10000	10000	100	0.76	0.150 J	0.048 J	0.150 J	0.7	0.360 J	ND	ND	0.34 J	ND	NA
Di-n-butylphthalate	5700	10000	100	0.140 J	ND	ND	ND	0.150 J	0.130 J	ND	ND	0.076 J	ND	NA
Fluoranthene	2300	10000	100	1.2	0.100 J	0.110 J	0.280 J	1.1	0.97	ND	ND	0.90 J	ND	NA
Pyrene	1700	10000	100	1.2	0.120 J	0.140 J	0.350 J	1.4	1.2	ND	0.049 J	1.1	ND	NA
Benzylphenylphthalate	1100	10000	100	ND	ND	0.044 J	0.140 J	0.350 J	0.9	ND	0.080 J	1.1	ND	NA
Benz(a)anthracene	9	40	500	0.57	0.096 J	0.069 J	0.140 J	0.540 J	0.44	ND	ND	0.58	ND	NA
Chrysene	9	40	500	0.9	0.096 J	0.071 J	0.190 J	0.620 J	0.7	ND	ND	0.58	ND	NA
Bis(2-Ethylhexyl)phthalate	49	210	100	0.86 JB	0.140 JB	0.082 JB	0.210 JB	5.2 EB	0.58	ND	0.068 JB	0.086 JB	ND	NA
Benz(b)fluoranthene	0.9	4	500	0.57	0.047 J	0.061 J	0.140 J	0.330 J	0.58	ND	ND	0.460 J	ND	NA
Benz(k)fluoranthene	0.9	4	500	0.55	ND	0.10 J	0.140 J	0.67	0.9	ND	ND	0.660 J	ND	NA
Benz(a)pyrene	0.66	0.66	100	0.41	ND	0.075 J	0.210 J	0.66	0.7	ND	ND	0.530 J	ND	NA
Indeno(1,2,3-cd)pyrene	0.9	4	500	0.140 J	ND	ND	0.210 J	0.66	0.7	ND	ND	0.074 J	ND	NA
Benz(g,h,i)perylene	NA	NA	NA	ND	ND	ND	0.098 J	0.200 J	0.24 J	ND	ND	0.160 J	ND	NA
Total Confident Conc. BINAs (g)	10,000	10,000	10,000	7.82	5.74	8.55	9.05	8.22	6.22	8.7	4.9	8.95	10	NA
Total Estimated Conc. BINAs TICs (g)	10,000	10,000	10,000	7.82	5.74	8.55	9.05	8.22	6.22	8.7	4.9	8.95	10	NA
<b>PCBs</b>														
<b>DILUTION FACTOR</b>														
Aroclor-1254	0.49	2	50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	NA
				ND	ND	0.11	0.43	2.4 E	2.5 E	ND	0.043	0.560 E	ND	NA







8.58 ac 30 samples by EPA  
 1/4 = 34 samples per hist fill req.  
 plus PMK samples



LEGEND  
 X CONTROL POINT  
 ● SAMPLE LOC  
 (0.38) PCB CONCENTR  
 PCB - POLYCHLORIN  
 U - NON-DETECTED C  
 J - ESTIMATED VALU

SCALE: 1" = 50'



**ATTACHMENT 2**

**SOIL (ASBESTOS/BLACK "TAR-LIKE" SUBSTANCE/PCB)  
DISPOSAL MANIFESTS**

**INTERIM REMEDIAL ACTION REPORT  
VETERANS MEMORIAL PARK  
BLOCK 260, LOT 15.02  
SOUTH PLAINFIELD, NEW JERSEY  
CASE NUMBER 01-08-07-1845-23  
PMK GROUP #0502014-01**

**February 12, 2004**

## Material from Cap Area

5. The NJDEP directed the former consultant to begin investigations as part of the PAR. On April 12, 2002, the Site Investigation Report was submitted.
6. A Remedial Investigation/Remedial Action Workplan was submitted to the NJDEP on November 15, 2002. In addition, the USEPA had conducted a floodplain soil and sediment study as part of an investigation of the Cornell Bubbler Superfund Site located near the Park. The USEPA collected 34 soil and sediment samples on the Park property, and submitted them for PCB analysis. PCB impact was determined at the Park.
7. In correspondence dated 12/17/2002, the NJDEP had concerns about a complete understanding of site history, especially as it related to historic fill (AOC 1). The NJDEP issued a No Further Action designation for AOC 2. The NJDEP requested additional investigation for AOC 3, and requested upgradient sources for AOC 4. The NJDEP required AOC 5 to be secured with a fence and required additional investigation. For AOC 6, the NJDEP required additional investigation as part of the investigation of AOC 1, and the NJDEP indicated they would grant an NFA for AOC if it could be proven that it was related to AOC 1.
8. The files indicated that the Edison Wetlands Association collected sediment samples in the area of AOC 8, but that information was never shared with the NJDEP or the Borough of South Plainfield.
9. Samples were collected of the black tar like substance in July 2002. The results were inconclusive as to the type of material. Other soil and sediment samples collected indicated impact from PCB, various hydrocarbons, and significant amounts of historic fill. Asbestos containing material was confirmed in AOC 8.
10. Limited excavations were conducted to remediate PCB impacted soil.
11. Ecological evaluations were conducted as part of the activities associated with the limited excavations.
12. An interim Remedial Action Workplan was prepared and submitted for the site on 11/15/2002. PCB issues were to be managed by the USEPA, and were waiting funding. USEPA indicated that funding would not happen for at least three (3) years. To date, T&M has not been notified that funding has not been approved by the USEPA. Other interim remedial measures identified in the Interim Remedial Action Workplan included additional excavation, preparation of draft deed notices for historic fill areas, and other areas.
13. An interim Remedial Action Report, dated 2/12/2004, was submitted for the Park. 380 tons of PCB/Asbestos Soil was removed, 10 tons of arsenic contaminated soil and 15 tons of soil impacted with PCB only was excavated and disposed. Additionally, the basketball court was demolished and asbestos was encapsulated. Approximately 1400 tons of black tar like substance, along with an unknown number of drums was disposed during interim remedial activities. Draft deed notices were prepared, but never finalized and recorded, based on the information reviewed.

14. No correspondence, reports, or any other documentation for the Park and environmental activities conducted is available after July 21, 2004.
15. A review of the available data indicates residual impact remains on site. Aside from AOC 2, no additional NFAs were issued by the NJDEP. Ground water has never been investigated at this site.

Based on this review, T&M makes the following recommendations:

1. Submit an LSRP Notice of Retention to the NJDEP. This is required to be submitted prior to May 7, 2012, per the Site Remediation Reform Act (SRRA). An LSRP Notice of Retention is attached to this document as Appendix A. Please sign where indicated and return to T&M. We will ensure it is submitted to the NJDEP prior to May 7, 2012.
2. Due to the past presence of black tar like substance, the NJDEP requires notification via a Light Non Aqueous Phase Liquid (LNAPL) form. The requirements of the SRRA had set a mandatory timeframe of March 1, 2012 for submission of this form.

However, since files were not available for T&M to review prior to March 1, 2012, the form is required to be submitted upon discovery of a past release of LNAPL. As such, this form is required to be submitted at this time, and it has been attached as Appendix B. Please sign in Section E and return to T&M. We will ensure it is submitted to the NJDEP as quickly as possible. Due to the urgency of this submission of this document, we request it be forwarded to us as soon as possible.

After receipt of the NJDEP files, T&M will provide the Borough with a comprehensive proposal for additional activities to bring the site to closure.